




Kingdom of Saudi Arabia
Ministry of Higher Education
King Faisal University
College of Clinical Pharmacy



Name	Snawar Hussain, Ph.D	
Specialization	Biochemistry And Molecular Biology	
Current Position	Assistant Professor	
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Academic Qualifications	Degree/year/uni versity/country Ph. D in Biochemistry and Molecular Biology, 2005, College of Life Science, Wuhan University, P.R.China.	
	Degree/year/uni versity/country Master of Science in Biochemistry, 1998, Department of Biochemistry, University of Karachi, Pakistan.	
	Degree/year/uni versity/country Bachelor of Science (Hons), 1997, Department of Biochemistry, University of Karachi, Pakistan.	
Teaching Experience	<ul style="list-style-type: none">• 2014-Present: Assistant Professor, College of Clinical Pharmacy, King Faisal University Al-Ahsa, KSA.• 2002-2005: Teaching Assistant, College of Life Science, Wuhan University, Wuhan, P. R. China.	
All the Courses Taught and Teaching in KFU with Course number	<ul style="list-style-type: none">❖ Biochemistry -1 (2020113)❖ Clinical Biochemistry and Nutrition (2020212)	
Research Interests	<ul style="list-style-type: none">❖ Host-virus interactions and role of cellular factors in viral infection.❖ Mechanisms of entry, assembly and egress of Hepatitis C Virus.❖ Role of host Lipid metabolism in Hepatitis C Virus infection and its clinical implications.❖ Molecular mechanisms of Coronavirus entry, host cell tropism and determinants of zoonotic (cross-species) transmission.	
Publications	<ul style="list-style-type: none">❖ Hussain, S, Sainz, B. Jr., Marsh, KA, Barretto, N and Uprichard, SL. Dynamic interactions between host lipid metabolism and Hepatitis C Virus infection. Manuscript in preparation.❖ Barretto N, Sainz B Jr, Hussein S, Uprichard SL. Determining the involvement of host cellular factors in HCV cell-to-cell spread and the therapeutic implications. Virol. 2014 May;88(9):5050-61.	

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- ❖ **Hussain S**, Barretto N and Uprichard SL. New hepatitis C virus drug discovery strategies and model systems. Review. *Expert Opin Drug Discov.* 2012 Sep;7(9):849-59.
 - ❖ Sainz B Jr, Barretto N, Martin DN, Hiraga N, Imamura M, **Hussain S**, Marsh KA, Yu X, Chayama K, Alrefai WA, Uprichard SL. Identification of the Niemann-Pick C1-like 1 cholesterol absorption receptor as a new hepatitis C virus entry factor. *Nat Med.* 2012 Jan 8;18(2):281-5.
 - ❖ **Hussain S** and Gallagher TM. Interaction of SARS-Coronavirus Protein 6 with nuclear import machinery is conformation dependent. *Virus Research* 2010; 153(2), 299-304.
 - ❖ Zhou H, Ferraro D, Zhao J, **Hussain S**, Shao J, Trujillo J, Netland J, Gallagher T, Perlman S. The N Terminal Region of Severe Acute Respiratory Syndrome Coronavirus Protein 6 Induces Membrane Rearrangement and Enhances Virus Replication. *J Virol.* 2010 84(7) : 3542-3551
 - ❖ Yang Y, **Hussain S**, Wang H, Ke M, Guo D. Translational control of the subgenomic RNAs of severe acute respiratory syndrome coronavirus. *Virus Genes.* 2009; 39(1):10-8.
 - ❖ Sarfraz S, Hamid S, Siddiqui A, **Hussain S**, Pervez S, Alexander G. Altered expression of cell cycle and apoptotic proteins in chronic hepatitis C virus infection. *BMC Microbiol.* 2008; 8:133.
 - ❖ **Hussain S**, Perlman S, Gallagher TM. Severe acute respiratory syndrome coronavirus protein 6 accelerates murine hepatitis virus infections by more than one mechanism. *J Virol.* 2008; 82(14):7212-22.
 - ❖ **Hussain S**, Pan J, Xu J, Yang Y, Chen Y, Wu Y, Li Z, Zhu Y, Tien P, Guo D. Identification and characterization of severe acute respiratory syndrome coronavirus subgenomic RNAs. *Adv Exp Med Biol.* 2006; 581:85-8.
 - ❖ Li Z, Xiong Y, Peng Y, Pan J, Chen Y, Wu X, **Hussain S**, Tien P, Guo D. Specific inhibition of HIV-1 replication by short hairpin RNAs targeting human cyclin T1 without inducing apoptosis. *FEBS Lett.* 2005; 579(14):3100-6.
 - ❖ **Hussain S**, Pan J, Chen Y, Yang Y, Xu J, Wu Y, Li Z, Zhu Y, Tien P, Guo D. Identification of novel subgenomic RNAs and noncanonical transcription initiation signals of severe acute respiratory syndrome coronavirus. *J Virol.* 2005; 79(9):5288-95.

Presentations and Abstracts

- Oral Presentations*
- ❖ **Snawar Hussain** and Thomas M. Gallagher. 2007. "SARS coronavirus accessory protein 6 accelerates MHV infections by more than one mechanism". American Society of Virology—26th annual meeting (July 2007, Corvallis, Oregon. USA).
 - ❖ **Snawar Hussain**, Jian Pan, Yu Chen, Zhao-Yang LI, Yu Peng, Ying Zhu, and Deyin Guo. 2003. "Novel Subgenomic RNAs and Noncanonical Transcription Initiation Signal of Severe Acute Respiratory Syndrome Associated Coronavirus (SARS-CoV)". 3rd annual meeting of the China RNA society and 1st international RNA workshop in China. October, 2003, Wuhan University, Wuhan, China.
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- ❖ **SnawarHussain**, Ji'an Pan, Jing Xu and GuoDeyin. Transcriptional control of SARS-CoVsubgenomic RNAs. International Symposium on Emerging Viruses: from genomics and Therapy. Nov. 18-19, 2004, Wuhan University, Wuhan, China.

Poster Presentations

- ❖ Snawar Hussain and Susan L. Uprichard. Poster presentation at 20th International Symposium on Hepatitis C Virus and Related Viruses to be held in Melbourne, Australia, October 6th-10th 2013.
- ❖ **Snawar Hussain** and Thomas M. Gallagher. Poster presentation at XIth International Nidovirus Symposium (St. Catherine's College Oxford, June 22-27 2008).
- ❖ **SnawarHussain**, Ji'an Pan, Jing Xu and GuoDeyin. "Identification and characterization of SARS Coronavirus subgenomic RNAs". Poster presentation at the Xth International Nidovirus Symposium: Toward the Control of SARS and other Nidovirus Diseases. June 24-30, 2005, Colorado Springs, CO. USA.

Memberships

American Society of Virology
